

Laboratory & Industrial Process Thermocouples

Complete the form below and email to EveryDegreeMatters@tiptemp.com

Our Thermal Advisors will review your submission and send a quote for your review.



Temperature Tools™
1-800-TIP-TEMP



T/C Technical Data
See Pages 50 - 55

• All Thermocouples are shown with our standard Large and Mini Die Cast Aluminum Heads. For FDA, OSHA and Other Special Requirements refer to our selection of Water Proof Heads on Page 38.

• Optional Weld Pad Probes are designed with 316 SS or Inconel welding pads for permanent installation. We match the pad material to the sheath material. Pads are available in 3 styles; Parallel, Perpendicular, and Curved. See Option 5 on next page.

• Spring Loaded Thermocouples are designed to provide fast response when used in a thermowell. Approximately 1/2" of travel is standard. See Option 6 on next page.

Simple Part Number Changes And Suffixes Allow You To Easily Order Modifications To The Thermocouple Assemblies Below.

TC1
LHDC (Standard Head)
See Page 38 For Our Complete Selection Of Heads.

1/2" Connection Thread
1/2" Process Thread
1/2" NPT Conduit

TC2
MHDC (Mini Head)

1/4 " Connection Thread
1/2" Process Thread
3/8" Conduit

TC3
X12PLO (Explosion Proof Head)
See pages 46-49 for thermowells

Nema 7 & 9
Class I, Groups B,C,D
Class II, Groups E,F,G
Class III, UL Std. 886
Federal Spec W-C-586B

1/2" Connection
1/2" Process Thread
1/2" NPT Conduit

TC4
NO HEAD
See Page 38 For Our Complete Selection Of Heads.
See pages 46-49 for thermowells

3/4" NPT Connection Thread
3/4" NPT Process Thread

TC5
NO HEAD

1/2" NPT Connection Thread
1/2" NPT Process Thread

TC6
NO HEAD

1/2" Connection Thread
No Process Thread

TC7
LHDC (Standard Head)
See Page 21 For Our Selection Of Compression Fittings

1/2 " Connection Thread
No Process Thread
1/2" NPT Conduit

TC8
MHDC (Mini Head)
See Page 21 For Our Selection Of Compression Fittings

1/4 " Connection Thread
No Process Thread
3/8" NPT Conduit

TC9
Replacement T/C Element
See Page 21 For Our Selection Of Compression Fittings

2" Stripped leads

Laboratory & Industrial Process Thermocouples

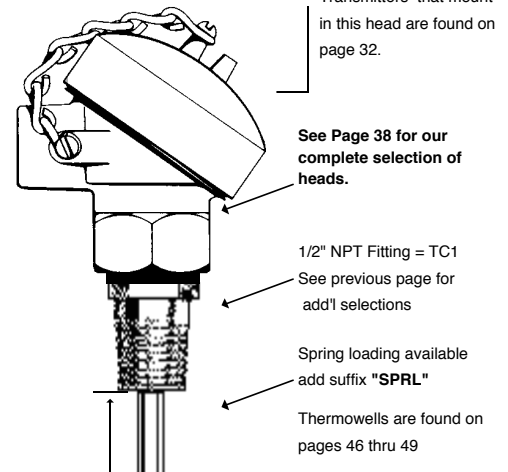
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- 1/4", 1/2" & 3/4" Process Thread connection.
- 12" 18" 24" lengths, stocked for fast service.
- 316 SS & Inconel sheath stocked. See page 52 for Others!
- Die Cast Aluminum head & ceramic terminal block
- Sheath diameters from 1/16" to 1/4" stocked for fast service.
- NIST Calibration Certificate Available. See page 13
- Blanket Orders will result in lower pricing.



HOW TO ORDER

Select **OUTLINED** Text To Create Part Number

Style	Calibration	Sheath Material	Sheath Dia.	Junction	Length	Additional Options
TC1 As Shown Upper Right	+ Iron - Constantan J Black 32 to 1400°F 0 to 760°C	SS 316 Stainless Steel Most Common Max Temp. 1700°F / 926°C Recommended for general purpose chemical applications. Food Applications!	116 1/16" or .062	G ROUNDED (Most Common) The element is welded directly to the tip of the sheath. This provides better protection against corrosive and mechanical damage than does the exposed junction. The response time is relatively fast. 	 <p>LENGTH</p> <p>Specify Length in inches</p>	Your additional assembly options and application notes may be listed here. Premium T/C increases sensor accuracy. "P"
TC2	+ Copper - Constantan T Blue -320 to 700°F -195 to 370°C	IN INCONEL 600 Max Temp. 2100°F / 1150°C Recommended for gas furnaces, lead baths, and bath mixture containing cyanide. Do not use in salt baths contaminated by sulphur	18 1/8" or .125	E XPOSED Bare thermocouple wires are butt-welded and insulation is sealed. Exposed tip provides fastest possible response time, but leaves element without protection against corrosive or mechanical damage. 		Duplex Assembly, choose double letters in Calibration column. Additional Sheath Material Available:
TC3	+ Chromel - Constantan E Purple 32 to 1600°F 0 to 900°C		316 3/16" or .187	U NGROUNDED The welded junction is imbedded in the insulation away from the welded end. This provides protection from electrical interference as well as corrosive and mechanical damage. Response time is slow. 		Teflon coated Thermocouple:
TC4	+ Chromel - Alumel K Yellow 32 to 2300°F 0 to 1260°C		14 1/4" or .250			Weld Pads are available add suffix <i>WPP- (style)</i> Parallel (PL) 1" x 1" Perpendicular (PL90) 1" x 1" Curved* (CV) 1" x 1"  *Specify Pipe Radius
TC5			38 3/8" or .375			Spring loaded:
TC6						
TC7						
TC8						
TC9						

SEE OPTION 1 SEE OPTION 2 SEE OPTION 3 SEE OPTION 4

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Application Notes/Comments:

Quantity:

Name:

Email:

Phone:

Company: